AMENDMENTS TO THE CLAIMS:

1. (CURRENTLY AMENDED) A method for facilitating autonomous

modification of a hardware state of a fixture system, comprising:

a firmware of the fixture system monitoring hardware state changes of

a fixturing device of the fixture system;

in response to the firmware receiving a hardware state change of the

fixturing device corresponding to a programmable event stored in a

memory of the fixture system, the firmware autonomously triggering

execution of a macro of one or more compiled macros corresponding

to the programmable event in response to one or more stimuli,

wherein:

said one or more compiled macros are created using a high-

level-programming macro language;

compiling one or more macros into a format recognizable by an

interpreter residing within a fixturing device;

transferring-the one or more compiled macros to a firmware

residing within the fixturing device; and

the firmware running the triggered macro and executing one or more

commands contained therein in response thereto, thereby facilitating

modification of the hardware state of the fixture system comprising the

fixturing-device and the one or more macros that allow the fixture

system to interact with a product under test, wherein the fixturing

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device is operable-to-hold-the-product under test stationary-and to

support-motions-that-allow-for-connection-to-the-product.

2. (PREVIOUSLY PRESENTED) The method of claim 1, wherein each of the

one or more commands are interpreted sequentially.

3. (PREVIOUSLY PRESENTED) The method of claim 1, wherein the high level

macro programming language may be determined by the fixturing system.

4. (ORIGINAL) The method of claim 1, wherein the one or more macros are

compiled external to the fixturing device.

5. (ORIGINAL) The method of claim 1, wherein prior to the firmware

interpreting the triggered macro, a triggered macro byte code is transferred

to a local memory of the fixturing device.

6. (ORIGINAL) The method of claim 1, wherein the macro is triggered by one or

more internal events corresponding to one or more hardware states of the

fixturing device.

7. (ORIGINAL) The method of claim 6, wherein the one or more internal events

are stored in a nonvolatile memory of the fixturing device.

8. (ORIGINAL) The method of claim 1, wherein the macro is triggered by one or

more external commands transmitted by a control software module.

9. (ORIGINAL) The method of claim 8, wherein the control software module is a

compiler for the one or more macros.

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10. (ORIGINAL) The method of claim 1, wherein the one or more macros are

compiled into byte code.

11. (ORIGINAL) The method of claim 10, wherein the byte code is downloaded

into a nonvolatile memory of the fixturing device.

12. (ORIGINAL) The method of claim 11, wherein one of a revision code is

downloaded with the byte code, said revision code operable to determine a

version of one or more macros currently loaded within the fixturing device.

13. (ORIGINAL) The method of claim 12, wherein during a system initialization,

further comprising:

a control software comparing a first macro revision with a second

macro revision determined by a default macro file; and

if the first macro revision and the second macro revision are not

equivalent, the control software compiling and downloading the one or

more macros from a file.

Application No. 10/001,319 Attorney Docket No. 10010587-1 14. (CURRENTLY AMENDED) A structure that facilitates a modification of a

hardware state of a fixturing device autonomously, further comprising:

a supervising automation software module, coupled to a control

software module of a computer program product, said automation

software module operable to initiate operation of the structure; and

a fixturing device, coupled to the control software module, operable to

hold a product-under test stationary and to support motions to allow for

connection to the product under test, said fixturing device further

comprising:

a firmware module, said firmware module operable to receive

one or more stimuli, preferably corresponding to one or more

hardware state changes of said fixturing device; and

one or more local memory modules, coupled to the firmware

module, said local memory modules operable to contain store

one or more compiled macros and one or more programmable

events the one or more stimuli-preferably corresponding to the

one or more hardware states; and

the one or more compiled macros, wherein in response to the

firmware module receiving the one or more stimuli that

correspond to a programmable event of the one or more

programmable events, the firmware module autonomously

triggering execution of a macro of the one or more compiled

macros corresponding to the programmable event that causes

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eausing the one or more hardware states of the fixturing device

to be changed.

15. (ORIGINAL) The structure of claim 14, wherein the one or more stimuli are

events receivable by the firmware module.

16. (ORIGINAL) The structure of claim 14, wherein the one or more stimuli are

commands receivable by the firmware module.

17. (ORIGINAL) The structure of claim 14, wherein the control software module

is coupled to the fixturing device via an electronic transmission cable.

18. (ORIGINAL) The structure of claim 14, wherein one or more of the one or

more local memory modules are nonvolatile.

19. (PREVIOUSLY PRESENTED) The structure of claim 14, wherein the

firmware module is operable to change the one or more hardware states in

response to the one or more stimuli.

20. (ORIGINAL) The structure of claim 14, wherein the one or more compiled

macros were previously compiled using the control software module.

21. (PREVIOUSLY PRESENTED) The structure of claim 14, wherein the one or

more compiled macros are operable to be interpreted during an operational

mode of the fixturing device.

22. (ORIGINAL) The structure of claim 14, wherein the control software module

sends one or more commands, receivable by the firmware.

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23. (PREVIOUSLY PRESENTED) The structure of claim 22, wherein the firmware module, upon receiving the one or more commands, executes one or more of the one or more compiled macros contained within the one or more local memory modules.

- 24. (NEW) The method of claim 1, wherein said one or more compiled macros are created using a high-level programming macro language.
- 25. (NEW) The method of claim 1, further comprising:

 compiling one or more macros into a format recognizable by an interpreter residing within a fixturing device; and

transferring the one or more compiled macros to the firmware residing within the fixturing device.